ELSEVIER

15 June 2000

Optics Communications 180 (2000) 403–409

OPTICS COMMUNICATIONS

www.elsevier.com/locate/optcom

Author index to volume 180

Achiam, Y., see Lando, M. 180 (2000) 127
Adams, M.J., see Ramoo, D.M. 180 (2000) 345
Agrawal, G.P., see Raghavan, S. 180 (2000) 377
Aguilar, J.F., see Sheppard, C.J.R. 180 (2000) 1
Akimoto, Y., see Inaba, H. 180 (2000) 121
Arieli, Y., A continuous phase plate for non-uniform illumination beam shaping using the inverse phase contrast method 180 (2000) 239
Arimoto, Y., see Izawa, J. 180 (2000) 137
Arrizón, V. and L.A. González, Optimization of quantized diffractive elements with symmetry constraints 180 (2000) 247
Avramopoulos, H., see Zoiros, K. 180 (2000) 301

Babbitt, W.R., see Merkel, K.D. 180 (2000) 103
Balzer, Chr., R. Huesmann, W. Neuhauser and P.E. Toschek, The quantum Zeno effect – evolution of an atom impeded by measurement 180 (2000) 115
Basov, N.G., G.D. Hager, A.A. Ionin, A.A. Kotkov, A.K. Kurnosov, J.E. McCord, A.P. Napartovich, L.V. Seleznev and N.G. Turkin, Frequency tunable single-line pulsed first-overtone carbon monoxide laser 180 (2000) 285
Buchhave, P., see Tidemand-Lichtenberg, P. 180 (2000) 159
Bugayev, A.A. and S.E. Nikitin, Optical bleaching of the IVCT-absorption bands of the molybdenum blues 180 (2000) 69
Burlak, G., S. Koshevaya, J. Sanchez-Mondragon and V. Grimalsky, Electromagnetic oscillations in a multilayer spherical stack 180 (2000) 49

Chen, H.-H., see Wong, Y.-J. 180 (2000) 317
Chen, Y., see Yu, X. 180 (2000) 373
Chernikov, S.V., see Koch, F. 180 (2000) 133
Cook, G., see Jones, D.C. 180 (2000) 391

DePue, M.T., S. Lukman Winoto, D.J. Han and D.S. Weiss, Transient compression of a MOT and high intensity fluorescent imaging of optically thick clouds of atoms 180 (2000) 73
Diels, J.-C., see Schwarz, J. 180 (2000) 383
Dorman, C., I. Kucukkara and J.P. Marangos, Density dependent effects due to residual susceptibilities in a four-wave mixing scheme with electromagnetically induced transparency 180 (2000) 263
Douay, M., see Duhem, O. 180 (2000) 255
Drakopoulos, M., see Leitenberger, W. 180 (2000) 233

PII: S0030-4018(00)00748-3

Duhem, O., J.F. Henninot and M. Douay, Study of in fiber Mach–Zehnder interferometer based on two spaced 3-dB long period gratings surrounded by a refractive index higher than that of silica 180 (2000) 255

Egorov, N.N., see Shamonina, E. 180 (2000) 183
El Bouz, M. and K. Heggarty, Signal window minimum average error algorithm for multi-phase level computer-generated holograms 180 (2000) 21
Elias, M. and M. Menu, Experimental characterization of a random metallic rough surface by spectrophotometric measurements in the visible range 180 (2000) 191
Eliel, E.R., see van Kampen, H. 180 (2000) 81

Fill, E., see Tommasini, R. 180 (2000) 277
Füzessy, Z., see Ráczkevi, B. 180 (2000) 225

Gao, Y., see Wu, J. 180 (2000) 43
Gayvoronsky, V.Ya., see Shamonina, E. 180 (2000) 183
González, L.A., see Arrizón, V. 180 (2000) 247
Gray, G.M., see Sun, W. 180 (2000) 361
Grimalsky, V., see Burlak, G. 180 (2000) 49
Guérineau, N., B. Harchaoui and J. Primot, Talbot experiment re-examined: demonstration of an achromatic and continuous self-imaging regime 180 (2000) 199
Guo, R., Z. Ling, S. Liu, J. Xu, X. Zhang and G. Zhang, Photovoltaic saturable nonlinearity in 2D in photorefractive crystals 180 (2000) 147
Guo, Y., L. Liu, Y. Liu and C. Zhou, A generalized analytic steady-state solution to two-beam coupling with any modulation response 180 (2000) 153
Guzun, D., Y. Li and M. Xiao, Blue light generation in single-pass frequency doubling of femtosecond pulses in $KNbO_3$ 180 (2000) 367
Gyímesi, F., see Ráczkevi, B. 180 (2000) 225

Hager, G.D., see Basov, N.G. 180 (2000) 285
Hallensleben, S., S.W. Harmer and P.D. Townsend, Optical constants for the S20 photocathode, and their application to increasing photomultiplier quantum efficiency 180 (2000) 89
Hamada, T., see Kim, N.S. 180 (2000) 329
Han, D.J., see DePue, M.T. 180 (2000) 73
Hara, H., see Izawa, J. 180 (2000) 137
Harchaoui, B., see Guérineau, N. 180 (2000) 199
Harmer, S.W., see Hallensleben, S. 180 (2000) 89
Hatziefremidis, A., see Zoiros, K. 180 (2000) 301
Hegarty, S.P., see Huyet, G. 180 (2000) 339
Heggarty, K., see El Bouz, M. 180 (2000) 21
Henninot, J.F., see Duhem, O. 180 (2000) 255
Hernández López, J.E. and D. Malacara-Hernández, Exact linear detuning error in phase shifting algorithms 180 (2000) 9
Hirao, K., see Si, J. 180 (2000) 179
Holland, F., see Huyet, G. 180 (2000) 339
Houbavlis, T., see Zoiros, K. 180 (2000) 301
Hu, Y., see Shamonina, E. 180 (2000) 183
Huesmann, R., see Balzer, Chr. 180 (2000) 115

Huyet, G., P.A. Porta, S.P. Hegarty, J.G. McInerney and F. Holland, A low-dimensional dynamical system to describe low-frequency fluctuations in a semiconductor laser with optical feedback 180 (2000) 339

Inaba, H., Y. Akimoto, K. Tamura, E. Yoshida, T. Komukai and M. Nakazawa, Experimental observation of mode behavior in erbium-doped optical fiber ring laser 180 (2000) 121
Insam, S., see Tommasini, R. 180 (2000) 277
Ionin, A.A., see Basov, N.G. 180 (2000) 285
Izawa, J., H. Nakajima, H. Hara and Y. Arimoto, A tunable and longitudinal mode oscillation of a Tm,Ho:YLF microchip laser using an external etalon 180 (2000) 137

Jones, D.C. and G. Cook, Non-reciprocal transmission through photorefractive crystals in the transient regime using reflection geometry 180 (2000) 391
Jung, W.-G., see Kim, K.-T. 180 (2000) 37

Kagan, J., see Lando, M. 180 (2000) 127
Kamenov, V.P., see Shamonina, E. 180 (2000) 183
Kang, S.-W., see Kim, K.-T. 180 (2000) 37
Khás, Z., see Král, K. 180 (2000) 271
Kiang, Y.-W., see Wong, Y.-J. 180 (2000) 317
Kim, K.-T., H.-W. Kwon, J.-W. Song, S. Lee, W.-G. Jung and S.-W. Kang, Polarizing properties of optical coupler composed of single mode side-polished fiber and multimode metal-clad planar waveguide 180 (2000) 37
Kim, N.S., T. Hamada, M. Prabhu, C. Li, J. Song, K. Ueda, A. Liu and H.J. Kong, Numerical analysis and experimental results of output performance for Nd-doped double-clad fiber lasers 180 (2000) 329
Kitaoka, K., see Si, J. 180 (2000) 179
Koch, F., S.V. Chernikov and J.R. Taylor, Characterization of dispersion in components for ultrafast lasers 180 (2000) 133
Kolesik, M., see Schwarz, J. 180 (2000) 383
Komukai, T., see Inaba, H. 180 (2000) 121
Kondo, Y., see Si, J. 180 (2000) 179
Kong, H.J., see Kim, N.S. 180 (2000) 329
Koshevaya, S., see Burlak, G. 180 (2000) 49
Kotkov, A.A., see Basov, N.G. 180 (2000) 285
Král, K., Z. Khás, C.Y. Lin and S.H. Lin, Optical line-shape and the time-domain photon echo measurement in semiconductor quantum dots 180 (2000) 271
Kucukkara, I., see Dorman, C. 180 (2000) 263
Kurnosov, A.K., see Basov, N.G. 180 (2000) 285
Kwon, H.-W., see Kim, K.-T. 180 (2000) 37

Lai, C.-W., see Wong, Y.-J. 180 (2000) 317
Lando, M., J. Kagan, B. Linyekin, L. Sverdalov, G. Pecheny and Y. Achiam, An astigmatic corrected target-aligned solar concentrator 180 (2000) 127
Lawson, C.M., see Sun, W. 180 (2000) 361
Lee, S., see Kim, K.-T. 180 (2000) 37
Leitenberger, W., T. Weitkamp, M. Drakopoulos, I. Snigireva and A. Snigirev, Microscopic imaging and holography with hard X-rays using Fresnel zone-plates 180 (2000) 233

Levy, U., see Zalevsky, Z. 180 (2000) 15
Li, C., see Kim, N.S. 180 (2000) 329
Li, F., see Zhang, X. 180 (2000) 211
Li, Q., see Yu, X. 180 (2000) 373
Li, Y., see Wu, J. 180 (2000) 43
Li, Y., see Guzun, D. 180 (2000) 367
Lin, C.Y., see Král, K. 180 (2000) 271
Lin, S.H., see Král, K. 180 (2000) 271
Liñares, J., C. Montero and D. Sotelo, Theory and design of an integrated optical sensor based on planar waveguiding lenses 180 (2000) 29
Ling, Z., see Guo, R. 180 (2000) 147
Linyekin, B., see Lando, M. 180 (2000) 127
Liu, A., see Kim, N.S. 180 (2000) 329
Liu, L., see Guo, Y. 180 (2000) 153
Liu, S., see Guo, R. 180 (2000) 147
Liu, S., see Zhang, X. 180 (2000) 211
Liu, Y., see Guo, Y. 180 (2000) 153
Lou, C., see Wu, J. 180 (2000) 43
Lukman Winoto, S., see DePue, M.T. 180 (2000) 73
Luo, S., see Yu, X. 180 (2000) 373

Malacara-Hernández, D., see Hernández López, J.E. 180 (2000) 9
Malyshev, V.A., I.V. Ryzhov, E.D. Trifonov and A.I. Zaitsev, Super-radiance from a thin solid film of three-level atoms: local-field effects 180 (2000) 59
Marangos, J.P., see Dorman, C. 180 (2000) 263
McCord, J.E., see Basov, N.G. 180 (2000) 285
McInerney, J.G., see Huyet, G. 180 (2000) 339
Mendlovic, D., see Zalevsky, Z. 180 (2000) 15
Menu, M., see Elias, M. 180 (2000) 191
Merkel, K.D. and W.R. Babbitt, Continuous waveform variable true-time delay by optical coherent transients 180 (2000) 103
Mitsuyu, T., see Si, J. 180 (2000) 179
Moloney, J.V., see Schwarz, J. 180 (2000) 383
Montero, C., see Liñares, J. 180 (2000) 29

Nakajima, H., see Izawa, J. 180 (2000) 137
Nakazawa, M., see Inaba, H. 180 (2000) 121
Napartovich, A.P., see Basov, N.G. 180 (2000) 285
Neuhauser, W., see Balzer, Chr. 180 (2000) 115
Nichiporko, S.F., see Shamonina, E. 180 (2000) 183
Nikitin, S.E., see Bugayev, A.A. 180 (2000) 69
Noordam, L.D., see Rella, C.W. 180 (2000) 141

Özen, G. and S. Salihoğlu, Tm-to-Ho resonant and nonresonant energy transfer in $LiYF_4$ 180 (2000) 323

Papakyriakopoulos, T., see Zoiros, K. 180 (2000) 301
Pecheny, G., see Lando, M. 180 (2000) 127

Podgaetsky, V.M., S.A. Tereshchenko, A.V. Smirnov and N.S. Vorob'ev, Bimodal temporal distribution of photons in ultrashort laser pulse passed through a turbid medium 180 (2000) 217
Porta, P.A., see Huyet, G. 180 (2000) 339
Prabhu, M., see Kim, N.S. 180 (2000) 329
Primot, J., see Guérineau, N. 180 (2000) 199

Qiao, H., see Zhang, X. 180 (2000) 211
Qiu, J., see Si, J. 180 (2000) 179

Ráczkevi, B., F. Gyímesi and Z. Füzessy, The accuracy of the phase difference formula in holographic interferometry 180 (2000) 225
Raghavan, S. and G.P. Agrawal, Spatiotemporal solitons in inhomogeneous nonlinear media 180 (2000) 377
Rambo, P., see Schwarz, J. 180 (2000) 383
Ramoo, D.M. and M.J. Adams, Carrier dependence of the spontaneous emission factor in DBR lasers 180 (2000) 345
Ranganath, G.S., see Srivatsa, S.K. 180 (2000) 349
Rella, C.W., A.F.G. van der Meer and L.D. Noordam, Characterization of a Rydberg atom-based streak camera operating in synchroscan mode 180 (2000) 141
Ringhofer, K.H., see Shamonina, E. 180 (2000) 183
Ryzhov, I.V., see Malyshev, V.A. 180 (2000) 59

Salihoğlu, S., see Özen, G. 180 (2000) 323
Sanchez-Mondragon, J., see Burlak, G. 180 (2000) 49
Santos, M.C., Dynamic Y-branched structures in quadratic nonlinear media 180 (2000) 167
Sautenkov, V.A., see van Kampen, H. 180 (2000) 81
Schwarz, J., P. Rambo, J.-C. Diels, M. Kolesik, E.M. Wright and J.V. Moloney, Ultraviolet filamentation in air 180 (2000) 383
Seleznev, L.V., see Basov, N.G. 180 (2000) 285
Shabtay, G., see Zalevsky, Z. 180 (2000) 15
Shamonina, E., Y. Hu, V.P. Kamenov, K.H. Ringhofer, V.Ya. Gayvoronsky, S.F. Nichiporko, A.E. Zagorskiy, N.N. Egorov and V.V. Shepelevich, Diffusion recording in photorefractive sillenite crystals: an analytical approach for engineering purposes 180 (2000) 183
Shepelevich, V.V., see Shamonina, E. 180 (2000) 183
Sheppard, C.J.R. and J.F. Aguilar, Electromagnetic imaging in the confocal microscope 180 (2000) 1
Si, J., Y. Kondo, J. Qiu, K. Kitaoka, N. Sugimoto, T. Mitsuyu and K. Hirao, Band-gap dependence of optically encoded second-harmonic generation in Bi_2O_3–B_2O_3–SiO_2 glasses 180 (2000) 179
Smirnov, A.V., see Podgaetsky, V.M. 180 (2000) 217
Snigirev, A., see Leitenberger, W. 180 (2000) 233
Snigireva, I., see Leitenberger, W. 180 (2000) 233
Song, J., see Kim, N.S. 180 (2000) 329
Song, J.-W., see Kim, K.-T. 180 (2000) 37
Sotelo, D., see Liñares, J. 180 (2000) 29
Srivatsa, S.K. and G.S. Ranganath, New nonlinear optical processes in liquid crystals 180 (2000) 349
Stathopoulos, T., see Zoiros, K. 180 (2000) 301
Sugimoto, N., see Si, J. 180 (2000) 179

Sui, Y., see Yu, X. 180 (2000) 373
Sun, Q., see Zhang, X. 180 (2000) 211
Sun, W., C.M. Lawson and G.M. Gray, Third-order nonlinearity and optical limiting of dichloromethane solutions of *cis*-$Mo(CO)_4(PPh_3)_2$ 180 (2000) 361
Sverdalov, L., see Lando, M. 180 (2000) 127

Tamura, K., see Inaba, H. 180 (2000) 121
Taylor, J.R., see Koch, F. 180 (2000) 133
Tereshchenko, S.A., see Podgaetsky, V.M. 180 (2000) 217
Tidemand-Lichtenberg, P. and P. Buchhave, Generalised theory describing non-linear interaction of focused Gaussian waves of arbitrary polarisation states 180 (2000) 159
Tommasini, R., S. Insam and E. Fill, Coherence properties of an amplified spontaneous emission laser: experiments on a 10 Hz vacuum–ultraviolet H_2-laser 180 (2000) 277
Tomono, T., Spectacle-type wearable display 180 (2000) 205
Toschek, P.E., see Balzer, Chr. 180 (2000) 115
Townsend, P.D., see Hallensleben, S. 180 (2000) 89
Trifonov, E.D., see Malyshev, V.A. 180 (2000) 59
Turkin, N.G., see Basov, N.G. 180 (2000) 285

Ueda, K., see Kim, N.S. 180 (2000) 329

Van der Meer, A.F.G., see Rella, C.W. 180 (2000) 141
Van Kampen, H., V.A. Sautenkov, E.R. Eliel and J.P. Woerdman, Electromagnetically induced resonances in a dipole–dipole broadened dense atomic vapor 180 (2000) 81
Vlachos, K., see Zoiros, K. 180 (2000) 301
Vorob'ev, N.S., see Podgaetsky, V.M. 180 (2000) 217

Weiss, D.S., see DePue, M.T. 180 (2000) 73
Weitkamp, T., see Leitenberger, W. 180 (2000) 233
Woerdman, J.P., see van Kampen, H. 180 (2000) 81
Wong, Y.-J., H.-H. Chen, C.-W. Lai, Y.-W. Kiang and C.C. Yang, Self modulation phenomena in an external-cavity semiconductor laser 180 (2000) 317
Wright, E.M., see Schwarz, J. 180 (2000) 383
Wu, J., Y. Li, C. Lou and Y. Gao, Optimization of pulse compression with an unbalanced nonlinear optical loop mirror 180 (2000) 43

Xiao, M., see Guzun, D. 180 (2000) 367
Xu, J., see Guo, R. 180 (2000) 147
Xu, J., see Zhang, X. 180 (2000) 211

Yang, C.C., see Wong, Y.-J. 180 (2000) 317
Yoshida, E., see Inaba, H. 180 (2000) 121
Yu, X., X. Zhong, Q. Li, S. Luo, Y. Chen and Y. Sui, Temperature dependence of the optical poling of azobenzene polyimide films 180 (2000) 373

Zagorskiy, A.E., see Shamonina, E. 180 (2000) 183
Zaitsev, A.I., see Malyshev, V.A. 180 (2000) 59
Zalevsky, Z., D. Mendlovic, U. Levy and G. Shabtay, A new optical random coding technique for security systems 180 (2000) 15

Zhang, G., see Guo, R. 180 (2000) 147
Zhang, G., see Zhang, X. 180 (2000) 211
Zhang, G., see Zhang, X. 180 (2000) 211
Zhang, X., see Guo, R. 180 (2000) 147
Zhang, X., J. Xu, Q. Sun, S. Liu, G. Zhang, H. Qiao, F. Li and G. Zhang, Dual-wavelength nonvolatile holographic storage 180 (2000) 211
Zheng, S.-B., Simplified quantum logic gates with trapped ions in thermal motion 180 (2000) 111
Zhong, X., see Yu, X. 180 (2000) 373
Zhou, C., see Guo, Y. 180 (2000) 153
Zoiros, K., T. Stathopoulos, K. Vlachos, A. Hatziefremidis, T. Houbavlis, T. Papakyriakopoulos and H. Avramopoulos, Experimental and theoretical studies of a high repetition rate fiber laser, mode-locked by external optical modulation 180 (2000) 301

15 June 2000

ELSEVIER

Optics Communications 180 (2000) 411–414

OPTICS COMMUNICATIONS

www.elsevier.com/locate/optcom

Subject index to volume 180

Editorial Guidelines and Instructions to Authors v

Propagation and scattering

M. Elias and M. Menu, Experimental characterization of a random metallic rough surface by spectrophotometric measurements in the visible range 191

N. Guérineau, B. Harchaoui and J. Primot, Talbot experiment re-examined: demonstration of an achromatic and continuous self-imaging regime 199

Optical information, image formation and analysis, optical computing

C.J.R. Sheppard and J.F. Aguilar, Electromagnetic imaging in the confocal microscope 1

J.E. Hernández López and D. Malacara-Hernández, Exact linear detuning error in phase shifting algorithms 9

Z. Zalevsky, D. Mendlovic, U. Levy and G. Shabtay, A new optical random coding technique for security systems 15

M. El Bouz and K. Heggarty, Signal window minimum average error algorithm for multi-phase level computer-generated holograms 21

J. Liñares, C. Montero and D. Sotelo, Theory and design of an integrated optical sensor based on planar waveguiding lenses 29

T. Tomono, Spectacle-type wearable display 205

X. Zhang, J. Xu, Q. Sun, S. Liu, G. Zhang, H. Qiao, F. Li and G. Zhang, Dual-wavelength nonvolatile holographic storage 211

V.M. Podgaetsky, S.A. Tereshchenko, A.V. Smirnov and N.S. Vorob'ev, Bimodal temporal distribution of photons in ultrashort laser pulse passed through a turbid medium 217

B. Ráczkevi, F. Gyímesi and Z. Füzessy, The accuracy of the phase difference formula in holographic interferometry 225

W. Leitenberger, T. Weitkamp, M. Drakopoulos, I. Snigireva and A. Snigirev, Microscopic imaging and holography with hard X-rays using Fresnel zone-plates 233

Y. Arieli, A continuous phase plate for non-uniform illumination beam shaping using the inverse phase contrast method 239

PII: S0030-4018(00)00749-5

V. Arrizón and L.A. González, Optimization of quantized diffractive elements with symmetry constraints 247

Optical communications

K.-T. Kim, H.-W. Kwon, J.-W. Song, S. Lee, W.-G. Jung and S.-W. Kang, Polarizing properties of optical coupler composed of single mode side-polished fiber and multimode metal-clad planar waveguide 37

J. Wu, Y. Li, C. Lou and Y. Gao, Optimization of pulse compression with an unbalanced nonlinear optical loop mirror 43

G. Burlak, S. Koshevaya, J. Sanchez-Mondragon and V. Grimalsky, Electromagnetic oscillations in a multilayer spherical stack 49

O. Duhem, J.F. Henninot and M. Douay, Study of in fiber Mach–Zehnder interferometer based on two spaced 3-dB long period gratings surrounded by a refractive index higher than that of silica 255

Atomic and molecular physics

V.A. Malyshev, I.V. Ryzhov, E.D. Trifonov and A.I. Zaitsev, Super-radiance from a thin solid film of three-level atoms: local-field effects 59

A.A. Bugayev and S.E. Nikitin, Optical bleaching of the IVCT-absorption bands of the molybdenum blues 69

M.T. DePue, S. Lukman Winoto, D.J. Han and D.S. Weiss, Transient compression of a MOT and high intensity fluorescent imaging of optically thick clouds of atoms 73

H. van Kampen, V.A. Sautenkov, E.R. Eliel and J.P. Woerdman, Electromagnetically induced resonances in a dipole–dipole broadened dense atomic vapor 81

C. Dorman, I. Kucukkara and J.P. Marangos, Density dependent effects due to residual susceptibilities in a four-wave mixing scheme with electromagnetically induced transparency 263

Condensed matter

S. Hallensleben, S.W. Harmer and P.D. Townsend, Optical constants for the S20 photocathode, and their application to increasing photomultiplier quantum efficiency 89

K. Král, Z. Khás, C.Y. Lin and S.H. Lin, Optical line-shape and the time-domain photon echo measurement in semiconductor quantum dots 271

Quantum optics

K.D. Merkel and W.R. Babbitt, Continuous waveform variable true-time delay by optical coherent transients 103

S.-B. Zheng, Simplified quantum logic gates with trapped ions in thermal motion 111

Chr. Balzer, R. Huesmann, W. Neuhauser and P.E. Toschek, The quantum Zeno effect – evolution of an atom impeded by measurement 115

R. Tommasini, S. Insam and E. Fill, Coherence properties of an amplified spontaneous emission laser: experiments on a 10 Hz vacuum–ultraviolet H_2-laser 277

Laser physics and laser sources

H. Inaba, Y. Akimoto, K. Tamura, E. Yoshida, T. Komukai and M. Nakazawa, Experimental observation of mode behavior in erbium-doped optical fiber ring laser 121

M. Lando, J. Kagan, B. Linyekin, L. Sverdalov, G. Pecheny and Y. Achiam, An astigmatic corrected target-aligned solar concentrator 127

F. Koch, S.V. Chernikov and J.R. Taylor, Characterization of dispersion in components for ultrafast lasers 133

J. Izawa, H. Nakajima, H. Hara and Y. Arimoto, A tunable and longitudinal mode oscillation of a Tm,Ho:YLF microchip laser using an external etalon 137

C.W. Rella, A.F.G. van der Meer and L.D. Noordam, Characterization of a Rydberg atom-based streak camera operating in synchroscan mode 141

N.G. Basov, G.D. Hager, A.A. Ionin, A.A. Kotkov, A.K. Kurnosov, J.E. McCord, A.P. Napartovich, L.V. Seleznev and N.G. Turkin, Frequency tunable single-line pulsed first-overtone carbon monoxide laser 285

K. Zoiros, T. Stathopoulos, K. Vlachos, A. Hatziefremidis, T. Houbavlis, T. Papakyriakopoulos and H. Avramopoulos, Experimental and theoretical studies of a high repetition rate fiber laser, mode-locked by external optical modulation 301

Y.-J. Wong, H.-H. Chen, C.-W. Lai, Y.-W. Kiang and C.C. Yang, Self modulation phenomena in an external-cavity semiconductor laser 317

G. Özen and S. Salihoğlu, Tm-to-Ho resonant and nonresonant energy transfer in $LiYF_4$ 323

N.S. Kim, T. Hamada, M. Prabhu, C. Li, J. Song, K. Ueda, A. Liu and H.J. Kong, Numerical analysis and experimental results of output performance for Nd-doped double-clad fiber lasers 329

G. Huyet, P.A. Porta, S.P. Hegarty, J.G. McInerney and F. Holland, A low-dimensional dynamical system to describe low-frequency fluctuations in a semiconductor laser with optical feedback 339

D.M. Ramoo and M.J. Adams, Carrier dependence of the spontaneous emission factor in DBR lasers 345

Nonlinear optics

R. Guo, Z. Ling, S. Liu, J. Xu, X. Zhang and G. Zhang, Photovoltaic saturable nonlinearity in 2D in photorefractive crystals 147

Y. Guo, L. Liu, Y. Liu and C. Zhou, A generalized analytic steady-state solution to two-beam coupling with any modulation response 153

P. Tidemand-Lichtenberg and P. Buchhave, Generalised theory describing non-linear interaction of focused Gaussian waves of arbitrary polarisation states 159

M.C. Santos, Dynamic Y-branched structures in quadratic nonlinear media 167

J. Si, Y. Kondo, J. Qiu, K. Kitaoka, N. Sugimoto, T. Mitsuyu and K. Hirao, Band-gap dependence of optically encoded second-harmonic generation in Bi_2O_3–B_2O_3–SiO_2 glasses 179

E. Shamonina, Y. Hu, V.P. Kamenov, K.H. Ringhofer, V.Ya. Gayvoronsky, S.F. Nichiporko, A.E. Zagorskiy, N.N. Egorov and V.V. Shepelevich, Diffusion recording in photorefractive sillenite crystals: an analytical approach for engineering purposes 183

S.K. Srivatsa and G.S. Ranganath, New nonlinear optical processes in liquid crystals 349

W. Sun, C.M. Lawson and G.M. Gray, Third-order nonlinearity and optical limiting of dichloromethane solutions of *cis*-$Mo(CO)_4(PPh_3)_2$ 361

D. Guzun, Y. Li and M. Xiao, Blue light generation in single-pass frequency doubling of femtosecond pulses in $KNbO_3$ 367

X. Yu, X. Zhong, Q. Li, S. Luo, Y. Chen and Y. Sui, Temperature dependence of the optical poling of azobenzene polyimide films 373

S. Raghavan and G.P. Agrawal, Spatiotemporal solitons in inhomogeneous nonlinear media 377

J. Schwarz, P. Rambo, J.-C. Diels, M. Kolesik, E.M. Wright and J.V. Moloney, Ultraviolet filamentation in air 383

D.C. Jones and G. Cook, Non-reciprocal transmission through photorefractive crystals in the transient regime using reflection geometry 391